Before the **Federal Communications Commission**

Washington, DC 20554

In the Matter of:)	
Closed Captioning of Internet)	
Protocol-Delivered Video)	
Programming: Implementation of)	MB Docket No. 11-154
the Twenty-First Century)	
Communications and Video)	
Accessibility Act of 2010)	

Report on Initial Compliance with the Commission's IP Closed Captioning Rules

Telecommunications for the Deaf and Hard of Hearing, Inc. (TDI)

National Association of the Deaf (NAD)

Deaf and Hard of Hearing Consumer Advocacy Network (DHHCAN)

Association of Late-Deafened Adults (ALDA)

Hearing Loss Association of America (HLAA)

California Coalition of Agencies Serving the Deaf and Hard of Hearing (CCASDHH)

Cerebral Palsy and Deaf Organization (CPADO)

Technology Access Program at Gallaudet University (TAP)

Blake E. Reid Counsel to TDI

Institute for Public Representation via electronic filing

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Georgetown Law

600 New Jersey Ave. NW

Washington, DC 20001

202.662.9545

blake.reid@law.georgetown.edu

I. Executive Summary

Telecommunications for the Deaf and Hard of Hearing Inc., (TDI), the National Association of the Deaf (NAD), the Deaf and Hard of Hearing Consumer Advocacy Network (DHHCAN), the Association of Late-Deafened Adults (ALDA), the Hearing Loss Association of America (HLAA), the California Coalition of Agencies Serving the Deaf and Hard of Hearing (CCASDHH), and the Cerebral Palsy and Deaf Organization (CPADO), collectively, "Consumer Groups," and the Technology Access Project at Gallaudet University (TAP), respectfully submit this report regarding initial compliance with the Commission's Internet Protocol ("IP") closed captioning rules, 47 C.F.R. § 79.4.¹ This report specifically analyzes compliance by video programming owners and distributors with the Commission's requirement under Rule § 79.4(b)(1) that prerecorded, unedited video programming delivered using IP be provided with closed captions, pursuant to Section 202(b) of the Twenty-First Century Communications and Video Accessibility Act of 2010 ("CVAA").²

We initiated this research to evaluate the impact of the Commission's rules on the accessibility of IP video programming and to observe, record, and analyze any notable issues. Accessibility technologist Dr. Christian Vogler worked with Consumer Groups to ensure methodological and observational accuracy.³

After testing a diverse base of video programming and playback apparatuses — including hardware devices, web browsers, and native applications designed for

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¹ See also Closed Captioning of Internet Protocol-Delivered Video Programming, Report and Order, MB Docket No. 11-154, 27 FCC Rcd. 787 (Jan. 13, 2012) ("IP Captioning Order").

² Pub. L. 111-260, 124 Stat. 2751 (codified at 47 U.S.C. § 613(c)(2)).

³ Dr. Christian Vogler, Ph.D., is the director of TAP, a principal investigator on the Rehabilitation Engineering Research Center on Telecommunications Access (RERC-TA), and an expert on telecommunications and video programming policy issues facing the deaf and hard of hearing community.

specific mobile operating systems ("apps") — we found a relatively high rate of initial compliance with rules. More specifically, approximately 82% of the apparatus and programming combinations we tested included captions, as required by the rules. We also noted some instances of video programmers going above and beyond the Commission's minimum requirements by captioning live or near-live programming earlier than required under Rule 79.4(b)(2) or by captioning programming not subject to the IP captioning rules, such as video clips.

While these findings were encouraging, we also noted isolated instances of non-compliance. In these cases, we followed a consistent methodology aimed at identifying whether the video programming owner ("VPO") or the video programming distributor ("VPD") appeared to be at fault in each instance, in accordance with the Commission's requirements that VPOs provide captions to downstream VPDs and that VPDs enable the rendering or pass through of those captions to the consumer.⁴

We also encountered several systemic problems that should be addressed as the Commission continues to develop its IP closed captioning policy. The issues included the widespread inability of web browsers on mobile devices to render captions, ineffective, poor-quality captions, difficulty determining whether uncaptioned programming was prerecorded or near-live, and difficulty identifying captioned programming via online sites.

II. Background

In enacting the CVAA, Congress sought to expand the availability of accessible video programming to consumers by requiring the Commission to promulgate rules requiring IP-delivered video programming to be captioned.⁵ On January 13, 2012, the Commission issued a Report and Order setting forth the closed captioning responsibilities for owners, providers, and distributors of IP-delivered video

⁴ 47 C.F.R. § 79.4(c)(1)-(2).

⁵ IP Captioning Order, 27 FCC Rcd. at 790-91, $\P\P$ 4-5.

programming.⁶ The Commission established four captioning deadlines for specific types of IP-delivered programming:

- (1) September 30, 2012, for all prerecorded, non-archival programming that is not edited for Internet distribution;
- (2) March 30, 2013, for all live and near-live non-archival programming;
- (3) September 30, 2013, for all prerecorded, non-archival programming that is edited for Internet distribution; and
- (4) March 30, 2014 for all archival programming.⁷

III. Methodology

From October 2, 2012 to December 3, 2012, Dr. Vogler and Jarvis Grindstaff of Gallaudet University and Jessica Lee and Blake Reid of the Institute for Public Representation at Georgetown Law tested 121 combinations of video playback apparatuses and video programming, analyzing the availability and operation of closed captions on each. To capture a wide range of data, Consumer Groups tested programming on phones, tablets, laptop and desktop computers, and set-top boxes through various apps and web browsers, recording the date and time we tested each program and attempting to discern the program's original date of publication or exhibition on television. Of the 121 test cases, 101 focused on apparatus and programming combinations that we believe were squarely required to comply with rule 79.4(b)(1) by the September 30, 2012 deadline. The complete results of the tests are detailed in Appendix A and analyzed below.

We also re-tested many programs on different apparatuses in order to pinpoint the origin of captioning problems or omissions. For example, if a VPD-provided service

⁶ See generally id.

⁷ 47 C.F.R. § 79.4(b). Rule 79.4(b)(4) sets out a grace period for captioning archival programming of 45 days between March 30, 2014 and March 30, 2015, 30 days from March 30, 2015 until March 30, 2016, and 15 days thereafter.

failed to provide captions on a program apparently subject to the September 30 deadline, we attempted to re-test the same program through a service provided by another VPD. If a program was captioned through one VPD service but not another, then we concluded that the missing or noncompliant captions likely represented a failure of the VPD to properly render or pass through the captions rather than a failure of the VPO to provide them in the first instance. We also performed this cross-VPD testing to address the Commission's concern that technical captioning problems might result from problems with a "consumer's device or Internet connection on a specific date" rather than VPO or VPD noncompliance.⁸

During each test, we took the following steps:

- 1. Load the browser or app and navigate to the subject program;
- 2. Start playback of the program;
- 3. Locate the closed-captioning button or control, if available, and turn on captions, if not already enabled;
- 4. Watch the program for long enough to verify the presence of dialogue or other sound that should be captioned, repeating in the browser or app's "full-screen" mode (if applicable);
- 5. Skip ahead to a new time near the middle and end of the program, and repeat step 4;
- Quit the browser or app and restart the test to determine whether captioning settings persist across viewings;
- 7. Investigate whether the browser or app controls allowed changes to caption appearance, such as font, color, and other attributes.

For example, on October 8, we observed *Mythbusters*, Season 1, Episode 31, originally published on television on October 7, 2012, through the Google Play Store

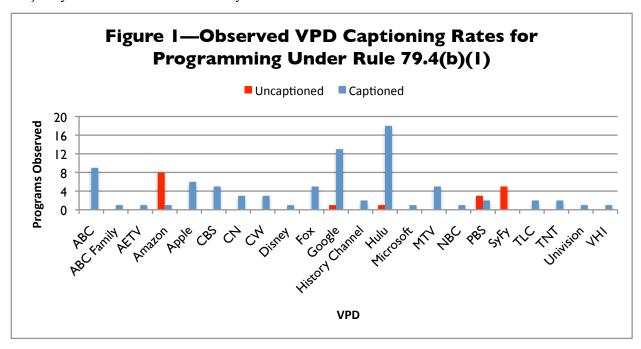
5

⁸ See IP Captioning Order, 27 FCC Rcd. at 833, ¶ 78.

and tested it on four different devices with different operating systems—an Apple MacBook Air running Mac OS X Lion, a Samsung Galaxy S3 (AT&T) running Android 4.04, an Apple iPad 2 running iOS 6, and a Samsung Galaxy S (Sprint Epic 4G) running Android 2.3.6—and different platforms—Chrome, Google Video Player, and the YouTube iOS app (although each platform was not available to test on each device). We repeated similar tests with other programs provided by other VPDs. This methodology allowed us to test whether captions from the same VPD were enabled on different combinations of devices and platforms.

IV. Analysis and Results

At the conclusion of testing, we found that 83 out of the 101 combinations subject to Rule 79.4(b)(1) that we tested—approximately 82%—appeared to comply with the Commission's rules, as shown in Figure 1 below. Most VPDs rendered captions as soon as programming was made available for IP delivery either on the VPD's website or through a native app. We encountered uniform compliance among a significant majority of the more than twenty VPDs that we observed.



We also noted several instances of VPOs and VPDs going beyond the Commission's minimum requirements by captioning programs that are not yet subject to the Commission's rules, such as live and archival programming. For example, we noted that by November 7th, C-SPAN had voluntarily captioned both President Obama's November 6 election victory speech and Mitt Romney's concession speech on its website. CNN also provided live captioning of the presidential debates on its website. In addition, Netflix captioned an archival November 26, 1991 episode of *Law & Order: Special Victims Unit* episode, which we observed on October 13th.

While compliance and voluntary captioning was relatively widespread, we also observed isolated but significant non-compliance by several VPDs, including Amazon.com, Inc. ("Amazon"), Hulu, and NBCUniversal's Syfy network.

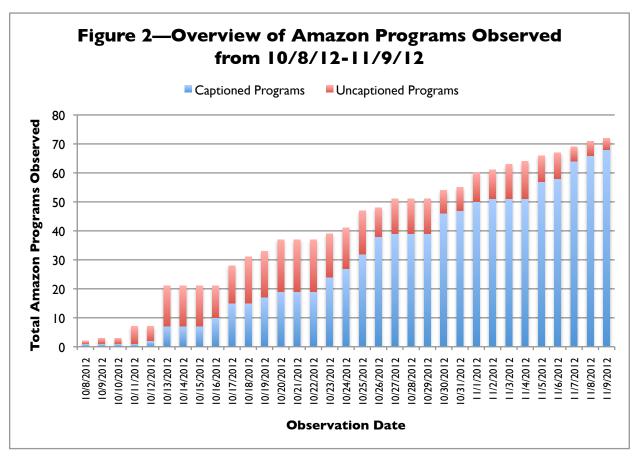
A. Amazon

Out initial observations of Amazon's programming indicated that Amazon consistently failed to include captions as soon as programs were initially made available for IP delivery. In one example, on October 9, Consumer Groups tested on the ABC and Amazon websites *Revenge*, Season 2, Episode 2, originally published on television on October 7. While ABC included captions on its website, Amazon did not.

Because Amazon's programming was non-compliant in eight out of our nine initial observations, we conducted an individualized test tailored to specifically monitor the time period between the initial availability of uncaptioned programming on Amazon's website and the subsequent availability of captions for that programming. More specifically, we observed Amazon daily for 32 days to determine whether newly listed television programs displayed the "CC" icon (indicating the presence of closed captioning) on program listings on Amazon's website. To guard against the possibility of the Amazon website displaying incorrect information, we also performed spot checks

to verify that the presence or absence of the "CC" icon accurately reflected whether a program was captioned or not.

Initially, more than two-thirds of Amazon's programming subject to the September 30 deadline under Rule 79.4(b)(1) was not captioned, as shown in Figure 2 below and detailed in Appendix B:



The median time that passed between when a program became available for streaming on Amazon's website and the availability of captions was 2.5 days, with the longest delay being over 20 days. The proportion of non-compliant episodes fell steadily over the course of 32 days of testing to 6%, and the turnaround time between a video's posting and the provision of captions also fell significantly. However, we still encountered significant non-compliance at the end of the testing period, more than a month after the September 30 deadline. We noted that many non-compliant programs

included captions when delivered by other VPDs, suggesting that the underlying cause of the missing compliance was endemic to Amazon. This non-compliance is the subject of a separate complaint filed today by the Consumer Groups against Amazon.

B. Hulu

Our initial tests of both the Hulu website and the Hulu Plus app on various devices showed an overall pattern of compliance, including a useful array of caption settings such as the ability to adjust the appearance of captions. We discovered, however, that *Nashville*, Season 1, Episode 4, originally published on television on October 31, had no captions on the Apple TV. Subsequent testing revealed that the Hulu Plus app on the Apple TV does not support captions on any program, including programs that are captioned on other devices supported by Hulu. In fact, Hulu notes on its website that "at this time, Closed Captions are not yet available in the Hulu Plus application for Apple TV," as shown in this screenshot of Hulu's website:9



What are the playback and navigation controls for Hulu Plus on Apple TV?

Are there Closed Captions available on the Apple TV?

At this time, Closed Captions are not yet available in the Hulu Plus application for Apple TV. We know this is a feature that many of our users would like to see, so we will be working hard to add it in a future release. For now, Closed Captioning is available on these other supported devices.

⁹ Hulu, *Are there Closed Captions available on the Apple TV?*, http://www.hulu.com/support/article/21745091#captions (last visited Dec. 16, 2012).

The Hulu Plus app stands in contrast to other apps on the Apple TV, including Netflix and Apple's own video delivery service, which do support captions.

C. Syfy

We also found significant non-compliance in programs delivered by Syfy, a network owned by NBCUniversal, through its website, syfy.com. ¹⁰ During our testing period, we were unable to locate a single captioned program or caption controls on syfy.com. During the same period, we found captioned versions of Syfy programs delivered by other VPDs, including Google, Hulu, and Amazon.

V. Noteworthy Problems

Beyond observing compliance or non-compliance with the September 30 deadline by VPDs and VPOs, we also identified several issues that the Commission should address.

A. Web Browsers on Mobile Devices

In our testing, we noted that essentially no web browsers on mobile devices, including smartphones or tablets, currently enable the display of closed captions. While many VPD websites include the ability to enable captions when accessed through desktop and laptop computer web browsers, they lack that same ability when accessed via mobile web browsers.

We believe that the widespread absence of captions on mobile browsers is due to the current lack of captioning support for HTML5 video. While many VPD websites rely on third-party plugins such as Flash and Silverlight to deliver captioned videos, those plugins are frequently unavailable on mobile devices. At present, native HTML5 browser support for captions is minimal or non-existent, and the upcoming WebVTT

¹¹ E.g., Mark W. Smith, *Adobe kills Flash on Mobile Devices* (Nov. 9, 2011), http://usatoday30.usatoday.com/tech/news/story/2011-11-09/mark-smith-adobe-flash-mobile/51135466/1.

¹⁰ See Appendix C.

Although there is experimental support for WebVTT on recent desktop browsers, including Internet Explorer, Firefox, Chrome, Safari, and Opera, we are not aware of any mobile web browser that has implemented WebVTT at this point. While there is at least one experimental JavaScript library that attempts to implement captioning functionality by overlaying captions on mobile browser windows via HTML manipulation, our tests indicate that this technology is not yet sufficiently robust enough for production use on mobile devices.¹³

Because the operating systems on popular tablet and smart phone devices, including iOS and recent versions of Android, do not support Flash or Silverlight, custom native apps for each VPDs are currently the only reliable way to render captions on mobile devices. This problem essentially leaves web-based programming on mobile devices totally inaccessible to viewers who are deaf or hard of hearing.

Accordingly, we suggest that the Commission, VPDs, and VPOs consider several possibilities for ensuring that consumers are not denied access to programming subject to Rule 79.4(b)(1) delivered on mobile web browsers:

- Creating native apps and prominently referring mobile website users to those apps;
- Incorporating and improving JavaScript-based technology to tide users over until better HTML5 standards become available;

¹² See generally WebVTT, http://dev.w3.org/html5/webvtt/ (last visited December 13, 2012); see also WebVTT Caption Demonstration, http://ncamftp.wgbh.org/test/track/ (last visited Dec. 4, 2012).

¹³ See generally VideoJS, http://videojs.com (last visited December 4, 2012). Moreover, no Javascript-based solutions appear able to render captions in full-screen mode on mobile browsers because of the use of native video player components that do not support the HTML-based overlay of captions.

 Working with VPOs to make videos available on pre-installed applications, like iTunes and YouTube, that already provide captioning support on mobile devices.

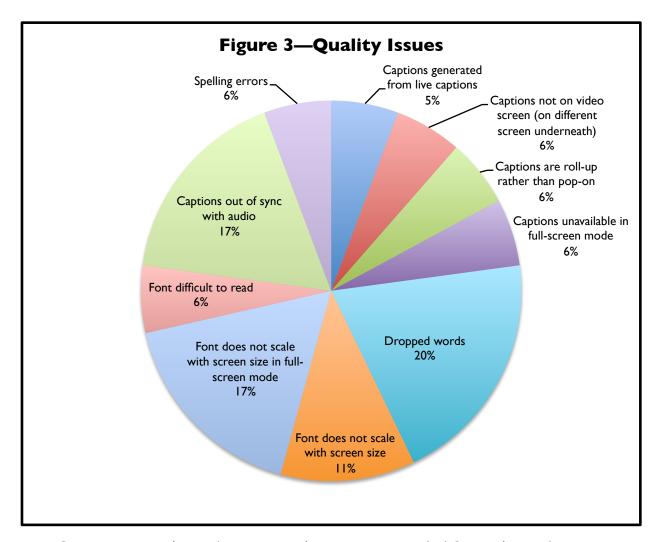
Stakeholders and the Commission should monitor this situation closely, as it is unclear that WebVTT will evolve to meet the requirements imposed by the Commission's rules implementing Section 203 of the CVAA. We are concerned that insufficient standards may result in a complete lack of viable options for displaying captions on a mobile web browser in full-screen mode, denying access to consumers who are deaf or hard of hearing in violation of the Commission's rules and congressional intent.

B. Quality Issues

Many programs distributed with captions contained serious quality issues that rendered them partially or wholly inaccessible to viewers who are deaf or hard of hearing. For example, *The Mindy Project*, Season 1, Episode 3, included captions on FOX's website that were too small to read in full-screen mode, and contained a spelling error and dropped words. On some programs, we also noted the substantial synchronization problems between video and captions. For example, *Cuidado con el Angel*'s November 3 episode on Univision's website included captions that were approximately three minutes behind the video, making it impossible for deaf and hard of hearing viewers to quickly associate the captioned text with corresponding video content. Finally, we noted that switching to full-screen mode often rendered captions

¹⁴ There is substantial debate among members of the committee charged with developing the WebVTT standard over whether WebVTT will implement all the features required by Rule 79.103(c), such as support for roll-up captions. *See generally* Silvia Pfeiffer, *Support for advanced caption features (inc rollup)* (Dec. 4, 2012), http://lists.w3.org/Archives/Public/public-texttracks/2012Dec/thread.html#msg0.

inoperable. These problems were pervasive throughout our testing, as shown in Figure 3 below and detailed in Appendix D:



C. Programming Whose Near-Live or Pre-Recorded Status is Unclear

Throughout the course of testing, we encountered many instances where it was unclear whether a particular program was pre-recorded and therefore subject to the September 30 deadline under Rule 79.4(b)(1), or near-live and subject to the March 30, 2013 deadline under Rule 79.4(b)(2). We nevertheless note these problems for the Commission because they will constitute unambiguous rule violations as of the March 30, 2013 deadline.

Univision presents one such instance of confusion. For example, on November 8, we viewed an uncaptioned episode of *Casa al Dia* originally published on television on November 3, 2012. Even though the show appeared to be pre-recorded, a majority of Univision's programming appears to be live or near-live, making it difficult to determine which deadlines apply to specific programs. We noted similar confusion over multiple episodes of PBS's *Frontline*. We also noted difficulty determining the status of programs such as ABC's *The Chew*, which apparently is taped the morning before it airs from Monday to Thursday, but is taped in advance on Fridays.¹⁵

D. Labeling Shows Prior to Purchase

Throughout our testing, we noted that programming was not consistently identifiable with a "CC" or similar label. We urge the Commission and the industry to explore solutions to ensure that consumers who are deaf or hard of hearing can quickly and easily identify programming that is captioned in advance of purchasing it.

VI. Conclusion

We commend the initial compliance that we observed during our tests. We emphasize, however, that we could not test every show on every network and note that diligence on the part of the Commission, VPOs and VPDs, and consumers is necessary to ensure the continued success of the IP captioning rules. We also urge the Commission to act swiftly and decisively in recognizing violations of the rules as the March 30, 2013 deadline approaches, and to pay careful attention to additional issues including the absence of captions on mobile browsers, quality issues, unclear programming statuses, and labeling issues that may undermine the efficacy of the Commission's rules over time.

¹⁵ The Chew, http://beta.abc.go.com/shows/the-chew/tickets (last visited December 5, 2012). We note that episodes of *The Chew* included captions in each of our observations.

Respectfully submitted,

/s/

Blake E. Reid[†] December 20, 2012

Counsel to TDI

Institute for Public Representation Georgetown Law 600 New Jersey Ave. NW Washington, DC 20001 202.662.9545 blake.reid@law.georgetown.edu

Cc:

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[†] Counsel thanks Georgetown Law student Jessica Lee for her assistance in preparing this document.

Telecommunications for the Deaf and Hard of Hearing, Inc. (TDI)

Claude Stout, Executive Director • cstout@TDIforAccess.org

Contact: Jim House, Director of Public Relations • jhouse@TDIforAccess.org
8630 Fenton Street, Suite 121, Silver Spring, MD 20910

www.TDIforAccess.org

National Association of the Deaf (NAD)

Howard Rosenblum, Chief Executive Officer • howard.rosenblum@nad.org *Contact:* Andrew Phillips, Policy Counsel • andrew.phillips@nad.org 8630 Fenton Street, Suite 820, Silver Spring, MD 20910 301.587.1788 www.nad.org

Deaf and Hard of Hearing Consumer Advocacy Network (DHHCAN)

Cheryl Heppner, Vice Chair • CHeppner@nvrc.org 3951 Pender Drive, Suite 130, Fairfax, VA 22030

Association of Late-Deafened Adults (ALDA)

Contact: Brenda Estes, President • bestes@endependence.org 8038 Macintosh Lane, Suite 2, Rockford, IL 61107

Hearing Loss Association of America (HLAA)

Brenda Battat, Executive Director • Battat@Hearingloss.org

Contact: Lise Hamlin, Director of Public Policy, LHamlin@Hearingloss.org

7910 Woodmont Avenue, Suite 1200, Bethesda, MD 20814

301.657.2248

www.hearingloss.org

California Coalition of Agencies Serving the Deaf and Hard of Hearing (CCASDHH)

Contact: Sheri A. Farinha, Vice Chair • SFarinha@norcalcenter.org 4708 Roseville Rd, Ste. 111, North Highlands, CA 95670 916.349.7500

Cerebral Palsy and Deaf Organization (CPADO)

Contact: Mark Hill, President • deafhill@gmail.com 1219 NE 6th Street #219, Gresham, OR 97030 503.468.1219

Technology Access Program at Gallaudet University (TAP)

Contact: Christian Vogler, Ph.D. • christian.vogler@gallaudet.edu
Director, Technology Access Program
Department of Communications Studies
SLCC 1116, Gallaudet University
800 Florida Avenue NE, Washington, DC 20002
202.250.2795
tap.gallaudet.edu

Appendix A—Overall Observations Appendix B—Amazon Appendix C—Syfy Appendix D—Quality Issues

Glossary:

Show: The name of the observed program and the season/episode number (if applicable).

Internet VPD: The video programming distributor through which we viewed the show.

Date: The date on which the observation was conducted.

Time: The time at which the observation was conducted (in 24-hour format).

Network: The network on which the show was published on TV.

TV Air Date: The date on which the show was published on TV.

Device: The name of the device used for observation.

OS: The operating system and version used for observation.

Browser: The name of the browser used for testing (if applicable).

Native App/Version: The name and version number of the app used for viewing. ("Web Player" indicates that the show was observed through a web browser.)

CC Work?: "Yes," if closed captions were provided and rendering was enabled; "No" if not.

CC Usable?: "Yes," if the provided captions substantially enabled the observer to perceive the audio components of the show; "No," if the captions had quality issues that prevented the observer from perceiving the audio components (see Appendix D for further details).

Control over Font?: "Yes," if at least some user control over font sizes or color was available; "No," if not. ("Yes" does not imply compliance with the requirements of 47 CFR § 79.103(c).)

CC Persists?: "Yes," if the rendering of captions persists after the user closes and reopens the app or web browser; "No," if not.

Miscellaneous: Comments clarifying the purpose of some tests, or pointing out other features of interest.

Show	Internet VPD	Date	Time	Network	TV Air	Device	os	Browser	Native App/Version	CC Work?	CC Usable?	Control over Font?	CC Persists?	Miscellaneous
Castle S5E2	ABC	10/2/2012	2:00:00	ABC	10/1/2012	MacBook Pro							1 (1 515451	- Hoteliancous
Castle 33E2	ABC	10/2/2012	2:00:00	ABC	10/1/2012	масвоок Рго	OS X Leopard	riretox	Web player	Yes	Yes	Yes		Captions are below video
														and positioned correctly.
														Options button sometimes
Grey's Anatomy S9E3	ABC	10/19/2012	23:52:00	ABC	10/18/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	No	Yes	No	hides part of the captions.
,,							OS X Mountain							made part of the day
Modern Family S4E3	ABC	10/10/2012	9:00:00	ABC	10/10/2012	MacBook Pro	Lion	Chrome	Web player	Yes	No	Yes	No	
,									' '					Descriptive captions of all
Modern Family S4E5	ABC	10/25/2012	11:50:00	ABC	10/24/2012	Macbook Pro	OS X Leopard	Firefox	Web player	Yes	No	Yes		non-dialogue elements
•							·							Captions are below video
														and positioned correctly.
							OS X Snow							Options button sometimes
Revenge S2E2	ABC	10/9/2012	12:02:00	ABC	10/7/2012	iMac	Leopard	Chrome	Web player	Yes	No	Yes	No	hides part of the captions.
Suburgatory STE2	ABC	10/7/2012	10:33:00	ABC	10/5/2012	iPhone 4	iOS 5.1.1		ABC Player 2.0.4	Yes	Yes	No	Yes	
The Chew	ABC	11/28/2012	12:30:00	ABC	11/27/2012	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes			
							OS X Mountain							
The Neighbors S1E2	ABC	10/10/2012	9:00:00	ABC	10/3/2012	MacBook Pro	Lion	Chrome	Web player	Yes	No	Yes	No	
Revenge S2E3	ABC	10/15/2012	23:35:00	ABC	10/14/2012	iPhone 4S	iOS 6		ABC Player 2.0.4	Yes	Yes	No	Yes	
Switched at Birth								Internet						
S1E30	ABC Family	11/2/2012	13:10:00	ABC Family	10/22/2012	Dell Laptop	Windows 7	Explorer 9	Web player	Yes	Yes	Yes		
Shipping Wars S2E14	AETV	10/3/2012	11:50:00	A&E	10/2/2012	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	No		
Bones S8E3	Amazon	10/9/2012	23:19:00	Fox	10/1/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
									Amazon Instant Video					No CC button. The same
Bones S8E3	Amazon	10/9/2012	23:45:00	Fox	10/1/2012	iPad 2	iOS 6		арр 1.2.47.0	No	N/A			episode has CC on the Web.
							Custom		Kindle Fire Native Player					No CC button. The same
Bones S8E3	Amazon	10/10/2012	10:05:00	Fox	10/1/2012	Kindle Fire	Android		6.3.1	No	N/A			episode has CC on the Web.
Grey's Anatomy S9E3		10/19/2012	8:36:00	ABC	10/18/2012	MacBook Air	OS X Lion	Chrome	Web player	No	N/A			
Grey's Anatomy S9E4	Amazon	10/19/2012	8:10:00	ABC	10/25/2012	MacBook Air	OS X Lion	Chrome	Web player	No	N/A			
							OS X Mountain							
	Amazon	10/10/2012	8:00:00	NBC	10/10/2012	MacBook Pro	Lion	Chrome	Web player	No	N/A			
Law & Order: Special		10/10/2012	0.00.00	. IDC	10/10/2012		OS X Mountain		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
Victims Unit \$14E2	Amazon	10/10/2012	8:00:00	NBC	10/10/2012	MacBook Pro	Lion	Chrome	Web player	No	N/A			
Nississilis CIEI	A	10/10/2012	8:30:00	ABC	10/10/2012	MaaDaala Baa	OS X Mountain Lion		\\/	NI-	N/A			
Nashville STET	Amazon Amazon	10/10/2012	23:25:00	ABC	10/10/2012	MacBook Pro iMac	OS X Lion	Chrome Chrome	Web player	No No	N/A N/A			
Revenge S2E2	Amazon	10/9/2012	23:25:00	ABC	10///2012	II*Iac	O3 X LION	Cnrome	Web player	INO	IN/A			Davidhe sha davi afsan sha
Animal Odd Couples Vol. 2	AI-	11/15/2012	14:35:00	PBS	11/7/2012	MacBook Pro	OS X Leopard		iTunes 10.6.3	Yes	No	No	Yes	Bought the day after the show aired on TV
VOI. Z	Apple	11/13/2012	14:35:00	LD2	11///2012	гласьоок гго	iOS 5.1.0		Trunes 10.6.3	ies	INO	INO	ies	snow aired on 1 v
Big Bang Theory S6E6	Apple	11/2/2012	13:40:00	CBS	11/1/2012	Apple TV	(5201)		Native video player	Yes	Yes		Yes	Full positioning is supported
big bang Theory 30L0	Дрріе	11/2/2012	13.70.00	CB3	11/1/2012	Apple 1 v	(3201)		rvative video piayei	163	162		163	Bought the day after the
Duck Dynasty S2E24	Annla	11/15/2012	14:20:00	A&E	11/7/2012	MacBook Pro	OS X Leopard		iTunes 10.6.3	Yes	Yes	No	Yes	show aired on TV
Duck Dynasty SZEZ I	Дрріс	11/13/2012	1 1.20.00	AGE	11///2012	T Iacbook 110	OS X Mountain		Trulies 10.0.5	163	163	140	163	Show all ed on 1 v
Jersey Shore 101	Apple	10/10/2012	9:00:00	MTV	10/4/2012	MacBook Pro	Lion		iTunes	No	N/A			Bonus episode
Jan 20/ 011010 101		. 5, . 0, 2012			37 2012	. ALCOURTIO	OS X Mountain				. 4			uu
Nashville SIEI	Apple	10/10/2012	8:50:00	ABC	10/10/2012	MacBook Pro	Lion		iTunes	Yes	Yes	No	Yes	
	F.F.**						iOS 5.1.0					-		
Nashville S1E4	Apple	11/2/2012	13:30:00	ABC	10/31/2012	Apple TV	(5201)		Native video player	Yes	Yes		Yes	Full positioning is supported
	FF	, _ ,	2.2 3.00			FF,	()		P, C.					Paraman Pro pubbouced

Show	Internet VPD	Date	Time	Network	TV Air Date	Device	os	Browser	Native App/Version	CC Work?	CC Usable?	Control over Font?	CC Persists?	Miscellaneous
T.I. and Tiny: Family Hustle S2E11	Apple	11/15/2012	14:50:00	VhI	11/5/2012	MacBook Pro	OS X Leopard		iTunes 10.6.3	Yes	Yes	No	Yes	Bought the day after the show aired on TV
. 1000.0 02211	, фр.с	,,		,		· ideBook · · · o	00 / (200pa. c		Traines Tolois					5.1017 4.1102 5111 7
C-SPAN video library: Obama victory speech	C-SPAN	11/7/2012	12:56:00	C-SPAN	11/6/2012	iMac	OS X Snow Leopard	Chrome	Web player	Yes	No	No	No	Credit for captioning a video clip from live programming
C-SPAN video library: Romney concession speech	C-SPAN	11/7/2012	13:00:00	C-SPAN	11/6/2012	iMac	OS X Snow Leopard	Chrome	Web player	Yes	No	No	No	Credit for captioning a video clip from live programming. Captions even work in "clip and share" mode.
Big Bang Theory S6E5	CBS	10/29/2012	10:20:00	CBS	10/25/2012	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	No	Yes	
Big Bang Theory S6E6	CBS	11/2/2012	13:35:00	CBS	11/1/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes			
How I Met Your Mother S8E3	CBS	10/14/2012	21.25.00	CDC	10/0/2012	Dallitarianda	\A/: d 7	Characa	\\/-h - l	V	NI-	NI-	V	
Partners SIE2	CBS	10/14/2012	21:35:00 4:00:00	CBS CBS	10/8/2012	Dell Latitude MacBook Pro	Windows 7 OS X Leopard	Chrome	Web player Web player	Yes Yes	No Yes	No No	Yes	
The Big Bang Theory S6E3	CBS	10/14/2012	21:00:00	CBS	10/11/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	Yes	No		
AnNoying Orange				Cartoon					F. 100 F. 107 C.					
SIE18	CN	11/8/2012	3:45:00	Network	10/29/2012	iPad 3	iOS 5.1.1		CN App 2.0.3	Yes	Yes	No	Yes	
Ben 10 Omnibus E7	CN	11/8/2012	3:25:00	Cartoon Network	11/3/2012	iPad 3	iO\$ 5.1.1		CN App 2.0.3	Yes	Yes	No	Yes	
The Green Lantern SIEI5	CN	11/8/2012	4:00:00	Cartoon Network	10/6/2012	iPad 3	iO\$ 5.1.1		CN App 2.0.3	Yes	Yes	No	Yes	
Michelle Obama	CNINI	10/14/2012	20.25.00	CNINI	10/14/2012	M B I A:	00.741	CI	NA / 1 1	V	v	v	N.	Credit for captioning a show
interview Arrow	CNN	10/16/2012	20:25:00 3:00:00	CNN	10/16/2012	MacBook Air iPad 3	OS X Lion iOS 5.1.1	Chrome	Web player CWtv App 1.5	Yes Yes	Yes Yes	Yes No	No No	pre-9/30 deadline
Arrow SIE3	CW	10/25/2012	8:10:00	CW	10/24/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Hart of Dixie Ep 205	CW	11/8/2012	3:10:00	CW	10/30/2012	iPad 3	iOS 5.1.1	Cilionic	CWtv App 1.5	Yes	Yes	No	No	
				Disney										
Austin & Ally S2E1	Disney	10/11/2012	12:50:00	Channel	10/7/2012	MacBook Pro	OS X Leopard	Safari	Web player	Yes	Yes	No		
E (0 B .	ECDNI	10/15/2012	12.00.00	ECDNI	0/11/2012	M D D	05.71	F: (M	V	v	N.I.		Credit for captioning a video
E:60 - Ray Lewis Ben and Kate STE5	ESPN Fox	10/15/2012	12:00:00 13:55:00	ESPN FOX	9/11/2012 10/23/2012	MacBook Pro MacBook Pro	OS X Leopard OS X Leopard		Web player Web player	Yes Yes	Yes Yes	No	Yes	clip
Bones S8E3	Fox	10/9/2012	23:06:00	Fox	10/23/2012	MacBook Air	OS X Leopard	Chrome	Web player	Yes	No	No	Yes	
Bories 30L3	100	10/7/2012	23.00.00	100	10/1/2012	T Iacbook 741	OS X Mountain		TTED player	163	140	140	103	
Bones S8E3	Fox	10/16/2012	0:30:00	FOX	10/1/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	No	Yes	
Family Guy STTE2	Fox	10/16/2012	0:30:00	FOX	10/7/2012	MacBook Pro	OS X Mountain Lion	Chrome	Web player	Yes	Yes	No	Yes	
The Mindy Project								Internet	r					
SIE3	Fox	11/2/2012	13:00:00	FOX	10/9/2012	Dell Laptop	Windows 7	Explorer 9	Web player	Yes	Yes	No		
Alphas S2E12	Google	10/17/2012	23:30:00	SyFy	10/15/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Alphas S2E12	Google	11/2/2012	14:00:00	SyFy	10/15/2012	Galaxy Tab	Android 2.2		Native video player	Yes	Yes	Yes	Yes	

	Internet				TV Air						СС	Control	СС	
Show	VPD	Date	Time	Network	Date	Device	os	Browser	Native App/Version	CC Work?	Usable?	over Font?	Persists?	Miscellaneous
														Google Play TV shows are
														not available with the Apple
Google+ Hangouts:							iOS 5.1.0							TV YouTube app, even though they are on the iPhone and
Minnesota Students	Google	11/20/2012	16:25:00		N/A	Apple TV	(5201)		YouTube for AppleTV	No	N/A			iPad
i illilesota students	Google	11/20/2012	10.23.00		13/73	дрріс і т	(3201)		Tou tube for Apple 14	140	13//3			Google Play TV shows are
														not available with the Apple
														TV YouTube app, even though
Google+ Hangouts:							OS X Snow							they are on the iPhone and
Minnesota Students	Google	11/20/2012	16:25:00		N/A	iMac	Leopard	Chrome	Web player	Yes	Yes	Yes	Yes	iPad
Grimm S2E7	Google	10/13/2012	22:10:00	NBC	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Grimm S2E8	Google	10/20/2012	10:15:00	NBC	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	Contrast with Amazon
		10/12/2012	15 45 00		10/10/2012		00.741	C 1	\A/ B					This is unexpected and does
Haven S3E4	Google	10/13/2012	15:45:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	WebPlayer	No	N/A			not indicate a pattern.
Haven S3E4	Google	10/15/2012	21:45:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	Retest of same show on Google Play
Law & Order SVU	Google	10/13/2012	21.73.00	Зугу	10/12/2012	I Iacbook All	O3 X LIOII	Chronie	vveo piayei	ies	ies	ies	162	Google Flay
S14E2	Google	10/13/2012	22:00:00	NBC	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	No	Yes	Yes	
Law & Order SVU	2008.0	10,10,2012	22.00.00		107.10720.12		307(2.0	C C C	r es player	.00	. 10			
S14E3	Google	11/2/2012	14:05:00	NBC	10/17/2012	Nexus 7	Android 4.1.2		Native video player	Yes	Yes	Yes	Yes	
Law and Order SVU	Ū					Samsung Galaxy			. ,					
S14E3	Google	10/18/2012	9:50:00	NBC	10/17/2012	S3 (AT&T)	Android 4.0.4		Native video player	Yes	Yes	Yes	Yes	
														Positioning is fully supported;
Mall CIDEL	C 1	10/0/2012	22.24.00	ъ.	10/7/2012	M B 14:	00.7/11	CI	NA7.1 1	v	V	v	V	cannot see if a video has CC
Mythbusters S13EI	Google	10/8/2012	23:34:00	Discovery	10/7/2012	MacBook Air Samsung Galaxy	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	before you buy. Cannot see if a video has CC
Mythbusters \$13EI	Google	10/8/2012	23:37:00	Discovery	10/7/2012	S3 (AT&T)	Android 4.0.4		Native video player	Yes	Yes	Yes	Yes	before you buy
i iyulbusters 313E1	Google	10/0/2012	23.37.00	Discovery	10///2012	33 (AI&I)	Aldroid 4.0.4		YouTube iOS App	163	163	ies	163	Cannot see if a video has CC
Mythbusters S13EI	Google	10/8/2012	23:47:00	Discovery	10/7/2012	iPad 2	iOS 6		1.0.1.3063	Yes	Yes	No	Yes	before you buy
,,	200			,										
						Samsung Galaxy S	5							Cannot see if a video has CC
Mythbusters \$13E1	Google	10/9/2012	0:15:00	Discovery	10/7/2012	(Sprint Epic 4G)	Android 2.3.6		Native video player	Yes	Yes	Yes	Yes	before you buy
				"The Voice										Credit for captioning pre-
Presidential Debate	C 1	10/20/2012	12.15.00	Of" YouTube		***	OS X Snow	CI	NA7.1 1	V	V	v	V	9/30 deadline. Credit for
Replay	Google	10/20/2012	12:15:00	Channel	10/3/2012	iMac	Leopard	Chrome	Web player	Yes	Yes	Yes	Yes	cleaning up quality.
														Positioning is fully supported;
														Cannot see if a video has CC
Revenge S2E2	Google	10/10/2012	0:07:00	ABC	10/7/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	before you buy.
Revenge The First									. ,					
Chapter (Bonus														Bonus show that wasn't
Episode)	Google	11/2/2012	14:00:00	ABC	N/A	Nexus 7	Android 4.1.2		Native video player	Yes	Yes	Yes	Yes	shown on TV
<u>.</u>														
American Restoration	,	10/14/2012	17.00.00	History	10/10/2012	Dall Lasieud.	\\/: d= 7	Ch	\ \ /ab = la	V	NI-	NI-	NI-	
/ Prank War S2E32	Channel	10/14/2012	17:00:00	Channel	10/10/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	No	No	No	

Show	Internet VPD	Date	Time	Network	TV Air Date	Device	os	Browser	Native App/Version	CC Work?	CC Usable?	Control over Font?	CC Persists?	Miscellaneous
Cajun Pawn Stars	History			History										
S3E5	Channel	10/14/2012	16:45:00	Channel	10/10/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	Yes	No		
30 Rock S7E2	Hulu	10/22/2012	1:30:00	NBC	10/11/2012	Macbook Pro	OS X Leopard	Safari	Web player	Yes	Yes	Yes	Yes	
30 Rock:The						Samsung S3								
Beginning of the End	Hulu	10/21/2012	21:50:00	NBC	10/4/2012	(Verizon)	Android 4.0.4		Hulu Plus 2.4.200921	Yes	Yes	Yes	Yes	
Glee S4 E7	Hulu	11/29/2012	10:55:00	Fox	11/22/2012	Xbox360	2.0.16202.0		Hulu for Xbox 360	Yes	Yes	No	No	
Grey's Anatomy S9E3	Hulu	10/19/2012	23:58:00	ABC	10/18/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Grimm S2E7	Hulu	10/13/2012	22:18:00	NBC	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Grimm S2E8	Hulu	10/20/2012	10:07:00	NBC	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Haven S3E3	Hulu	10/13/2012	15:40:00	SyFy	10/5/2012	MacBook Air	OS X Lion	Chrome	Web Player	Yes	Yes	Yes	Yes	
Haven S3E4	Hulu	10/13/2012	15:35:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Law & Order SVU							Custom							
S14E2	Hulu	10/13/2012	17:40:00	NBC	10/10/2012	Kindle Fire	Android 6.3.1		Hulu App 1.6.4	Yes	Yes	Yes	Yes	
Modern Family S4E2	Hulu	10/11/2012	1:20:00	ABC	10/10/2012	MacBook Pro	OS X Leopard	Safari	Web player	Yes	Yes	No	Yes	
Modern Family S4E3	Hulu	10/11/2012	1:45:00	ABC	10/10/2012	MacBook Pro	OS X Leopard		Web player	Yes	Yes	No	Yes	
,							iOS 5.1.0		' '					
Nashville STE4	Hulu	11/2/2012	13:20:00	ABC	10/31/2012	Apple TV	(5201)		Hulu for AppleTV	No	N/A			
Nashville STE4	Hulu	11/2/2012	13:25:00	ABC	10/31/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes			
		,												Credit for captioning a show
New Girl	Hulu	10/3/2012	3:30:00	Fox	9/25/2012	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	No		pre-9/30 deadline
New Girl S2E5	Hulu	10/24/2012	12:35:00	Fox	10/23/2012	MacBook Pro	OS X Leopard		Web player	Yes	Yes	Yes	Yes	pro mos somemo
Real Housewives of		. 0, 2 ,, 20 . 2	. 2.55.55	. 670	. 0, 20, 20.2		00 % 200pu. 0	Juliu.	r reo piayer					
New Jersey: Reunion														
Part 2	Hulu	10/22/2012	12:25:00	Bravo	10/7/2012	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	Yes	Yes	
Revolution S1E5	Hulu	10/22/2012	12:15:00	NBC	10/15/2012	MacBook Pro	OS X Leopard		Web player	Yes	Yes	Yes	Yes	
The Chew	Hulu	10/22/2012	12:55:00	ABC	10/18/2012	MacBook Pro	OS X Leopard		Treb player	Yes	103	Yes	103	
The Chew	Tiulu	10/22/2012	12.55.00	7100	10/10/2012	Samsung S3	OO / Leopard	THEIOX		103		103		
The Office:Work Bus	Hulu	10/21/2012	21:30:00	NBC	10/18/2012	(Verizon)	Android 4.0.4		Hulu Plus 2.4.200921	Yes	Yes	Yes		
The Real Housewives	Tiulu	10/21/2012	21.30.00	INDC	10/10/2012	(*6112011)	OS X Mountair	,	1 Iulu 1 Iu3 2. 1.200721	163	163	163		
of New Jersey S4E22	Hulu	10/16/2012	10:40:00	BRAVO	10/7/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	Yes	Yes	
Parking Wars - E86	Microsoft	11/29/2012	11:08:00	A&E	10/6/2012	Xbox360	2.0.16202.0	Cilionie	Xbox Video	Yes	Yes	No	Yes	
I al Killg TTal 3 - LOO	1 1101 03010	11/2//2012	11.00.00	AGE	10/0/2012	ADOX300	OS X Mountair	,	Abox video	163	163	140	163	
Jersey Shore S6E3	MTV	10/16/2012	10:25:00	MTV	10/15/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	No	Yes	
jersey shore solls		10/10/2012	10.25.00	11114	10/13/2012	1 lacbook 110	OS X Mountair		Treb player	163	163	140	163	
lersey Shore S6E4	MTV	10/16/2012	10:25:00	MTV	10/15/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	No	Yes	
Teen Mom Farewell	1117	10/10/2012	10.23.00	1114	10/13/2012	T IaCDOOK T TO	OS X Mountair		vveo piayei	ies	162	140	163	
Special	MTV	10/16/2012	10:20:00	MTV	10/3/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	No	Yes	
эресіаі	111 7	10/10/2012	10.20.00	1117	10/3/2012	I IaCDOOK FIO	OS X Mountair		TTED player	163	162	INU	162	
Teen Mom S4E13	MTV	10/16/2012	10:15:00	MTV	10/10/2012	MacBook Pro	Lion	Chrome	Web player	Yes	Yes	No	Yes	
reen rioni 34E13	1 1 1 V	10/10/2012	10.13:00	1.11 A	10/10/2012	I IACDOOK FI'O	OS X Mountair		Treo player	162	162	140	162	
True Life S3E10	MTV	10/16/2012	10:30:00	MTV	10/10/2012	MacBook Pro	Lion Lion	Chrome	Web player	Yes	Yes	No	Yes	
Go On S1E5	NBC	10/16/2012	12:25:00	NBC	10/10/2012	MacBook Pro			Web player	Yes	Yes	INU	162	
GO OII 31E3	INDC	10/3/2012	12:25:00	INDC	10/2/2012	I-I4CDOOK FIO	OS X Leopard	rireiox	Web player	ies	162			
Cuarda Amatanana SIFI	Nandin	11/20/2012	14.20.00	ARC	3/27/2005	AI-T\/	iOS 5.1.0		North for AppleTV	Vaa	Vaa		Vaa	
Grey's Anatomy STET	Nettiix	11/20/2012	16:20:00	ABC	3/27/2005	Apple TV	(5201)		Netflix for AppleTV	Yes	Yes		Yes	

nternet /PD	Date	Time	Network	TV Air						CC			
				Date	Device	os	Browser	Native App/Version	CC Work?		Control over Font?	CC Persists?	Miscellaneous
													App behavior seems identical to Google Play version. Credit for captioning pre-
Vetflix	10/13/2012	17:40:00	NBC	11/26/1991	Kindle Fire	Custom Android 6.3.1		Netflix App 2.0.1	Yes	Yes	No	No	9/30 deadline.
PBS	11/8/2012	16:00:00	PBS	11/8/2012	Samsung Galaxy Nexus	Android 4.1.1	Chrome	Web player	No	N/A			No CC button
PBS	10/11/2012	23:40:00	PBS	10/7/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	No	No	
PBS	10/11/2012	23:40:00	PBS	9/25/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	No	No	
PBS	10/11/2012	23:40:00	PBS	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	No	N/A			
PBS	10/11/2012	23:40:00	PBS	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	No	No	
PBS	10/11/2012	23:40:00	PBS	10/10/2012	Samsung Galaxy S3 (AT&T)	Android 4.0.4	Android Browser	Web player	No	N/A			
PBS	10/11/2012	23:40:00	PBS	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	No	N/A			Credit for captioning ahead
PBS	11/6/2012	20:05:00	PBS	11/6/2012	MacBook Air	OS X Lion OS X Snow	Chrome	Web Player	Yes	No	No	No	of deadline
уFу	11/2/2012	11:30:00	SyFy	10/1/2012	iMac	Leopard OS X Snow	Chrome	Web player	No	N/A			
yFy	11/8/2012	12:35:00	SyFy	10/8/2012	iMac	Leopard	Chrome	Web player	No	N/A			
	10/13/2012	15:35:00		10/3/2012	MacBook Air	OS X Lion	Chrome	,	No	N/A			
yFy	12/3/2012	11:05:00		10/1/2012	MacBook Pro	OS X Leopard	Firefox	Web Player	No				No CC button
TLC	10/14/2012	16:35:00	TLC	10/4/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	No	Yes	No	
TLC	10/14/2012	14:30:00	TLC	10/7/2012	Dell Latitude Samsung Galaxy	Windows 7	Chrome	Web player	Yes	Yes	Yes		
TNT	11/8/2012	16:10:00	TNT	10/31/2012	Nexus Samsung Galaxy	Android 4.1.1		TNT Player	Yes	Yes	No		
TNT	11/8/2012	16:15:00	TNT	11/7/2012	Nexus	Android 4.1.1 OS X Snow	Firefox	TNT Player	Yes	Yes	Yes		
Jnivision Jnivision	11/8/2012 11/29/2012	15:00:00 12:45:00	Univision Univision	11/3/2012	iMac Xbox360	Leopard 2.0.16202.0	16.0.2	Web player Univision for Xbox 360	No No	N/A			This may not be prerecorded
Jnivision						OS X Snow	Firefox 16.0.2			No	No	No	
								L : 7 -					
Jnivision	11/29/2012	12:55:00	Univision	11/23/2012	iMac	Lion	Chrome	Web player	No				
Inivision	11/29/2012	12:50:00	Univision	11/23/2012	Xhox360	2.0.16202.0		Univision for Xhox 360	No				
							Firefox			Yes			
THE PER PER PER PER PER PER PER PER PER PE	BS B	BS 11/8/2012 BS 10/11/2012 BS 11/6/2012 BS 11/6/2012 BS 11/8/2012 BS 10/11/2012 BS 10/11/20	BS 11/8/2012 16:00:00 BS 10/11/2012 23:40:00 BS 11/6/2012 20:05:00 VFy 11/2/2012 11:30:00 VFy 11/8/2012 12:35:00 VFy 10/13/2012 15:35:00 VFy 10/13/2012 15:35:00 LC 10/14/2012 16:35:00 LC 10/14/2012 16:35:00 LC 10/14/2012 16:15:00 INT 11/8/2012 16:15:00 Inivision 11/8/2012 15:00:00 Inivision 11/7/2012 19:25:00 Inivision 11/29/2012 12:55:00 Inivision 11/29/2012 12:55:00 Inivision 11/29/2012 12:50:00 Inivision 11/29/2012 12:50:00 Inivision 11/29/2012 12:50:00	BS 11/8/2012 16:00:00 PBS BS 10/11/2012 23:40:00 PBS BS 11/6/2012 20:05:00 PBS BS 11/6/2012 11:30:00 SyFy VFy 11/8/2012 12:35:00 SyFy VFy 10/13/2012 15:35:00 SyFy VFy 10/13/2012 15:35:00 SyFy UC 10/14/2012 16:35:00 TLC LC 10/14/2012 16:35:00 TLC LC 10/14/2012 16:10:00 TNT Inivision 11/8/2012 15:00:00 Univision Inivision 11/7/2012 12:45:00 Univision Inivision 11/29/2012 12:55:00 Univision Inivision 11/29/2012 12:55:00 Univision Inivision 11/29/2012 12:55:00 Univision	BS	Samsung Galaxy Nexus				Interliax Inte	Interlief Inte	Interlief Inte	Interlied Oli 37/2012 174/000 NBC 11/24/1991 Kindle Fire Samsung Galaxy Android 4.1.1 Chrome Web player No Ni/A

Show	Internet VPD	Date	Time	Network	TV Air Date	Device	os	Browser	Native App/Version	CC Work?	CC Usable?	 CC Persists?	Miscellaneous	
				"The Voice										
				Of" Yahoo!										
Presidential Debate				Screen			OS X Snow							
Replay	Yahoo	10/10/2012	12:15:00	channel	10/3/2012	iMac	Leopard	Chrome	Web player	No	N/A			

	Show	Fringe				CSI NY				
	Season/ Episode	S5E2	S5E3	S5E4	S5E5	S9E2	S9E3	S9E4	S9E5	S9E6
	TV Air Date	10/5/2012	10/12/2012	10/26/2012	11/2/2012	10/5/2012	10/12/2012	10/19/2012	10/26/2012	11/2/2012
Show is not captioned	Observation Date									
Channia anadanad	10/8/2012									
Show is captioned	10/9/2012									
Show not on TV, not on	10/10/2012									
Amazon, not observed, or	10/11/2012									
status unknown	10/12/2012									
	10/13/2012	Y	N			N	N			
	10/14/2012	Y	N			N	N			
	10/15/2012	Y	N			N	N			
	10/16/2012	Y	N			N	Y			
	10/17/2012	Y	N			Y	Y			
	10/18/2012	Y	N			Υ	Υ			
	10/19/2012	Y	N			Υ	Υ			
	10/20/2012	Y	N			Υ	Υ	N		
	10/21/2012	Υ	N			Υ	Υ	N		
	10/22/2012	Y	N			Υ	Υ	N		
	10/23/2012	Y	N			Υ	Υ	Υ		
	10/24/2012	Y	Y			Υ	Υ	Υ		
	10/25/2012	Y	Υ			Υ	Υ	Υ		
	10/26/2012	Y	Υ			Υ	Υ	Υ		
	10/27/2012	Y	Υ	N		Υ	Υ	Υ	N	
	10/28/2012	Y	Υ	N		Υ	Υ	Υ	N	
	10/29/2012	Y	Υ	N		Υ	Υ	Υ	N	
	10/30/2012	Y	Υ	Υ		Υ	Υ	Υ	Υ	
	10/31/2012	Υ	Υ	Υ		Υ	Υ	Υ	Υ	
	11/1/2012	Υ	Υ	Υ		Υ	Υ	Υ	Υ	
Note: Because we	11/2/2012	Υ	Υ	Υ		Υ	Υ	Υ	Υ	
observed programs only	11/3/2012	Y	Υ	Υ	N	Υ	Υ	Υ	Υ	
once per day, the	11/4/2012	Y	Υ	Υ	N	Υ	Υ	Υ	Υ	N
appearance of closed	11/5/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
captions may be noted up	11/6/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
to 24 hours after their	11/7/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
actual provision by	11/8/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Amazon.	11/9/2012	Y	Y	Υ	Y	Y	Y	Υ	Y	Y
	Total Uncaptioned Days	0	Ш	3	2	4	3	3	3	I

	Show	Revenge					Switched at	Birth	
	Season/ Episode		S2E3	S2E4	S2E5	S2E6	SIE28	SIE29	SIE30
	TV Air Date	10/7/2012	10/14/2012	10/21/2012	10/28/2012	11/4/2012	10/8/2012	10/15/2012	10/22/2012
Show is not captioned	Observation Date								
Show is captioned	10/8/2012	N							
	10/9/2012	N					N		
Show not on TV, not on	10/10/2012	N					N		
Amazon, not observed, or	10/11/2012	N					N		
status unknown	10/12/2012	Y					N		
	10/13/2012	Y					N		
	10/14/2012	Y Y					N		
	10/15/2012						N		
	10/16/2012	Y	· · ·				N	N.	
	10/17/2012	Y	Y				N	N	
	10/18/2012	Y	Y				N	N	
	10/19/2012	Y	Y				N	N	
	10/20/2012	Υ	Y				N	N	
	10/21/2012	Y	Y				N	N	
	10/22/2012	Y	Y				N	N	
	10/23/2012	Υ	Y				Υ	Υ	N
	10/24/2012	Υ	Y	N			Υ	Υ	N
	10/25/2012	Υ	Y	N			Υ	Υ	N
	10/26/2012	Υ	Υ	Υ			Υ	Υ	N
	10/27/2012	Υ	Υ	Υ			Υ	Υ	N
	10/28/2012	Υ	Y	Υ			Υ	Υ	Ν
	10/29/2012	Υ	Y	Υ			Υ	Υ	N
	10/30/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
	10/31/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
	11/1/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
	11/2/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
Note: Because we	11/3/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
observed programs only	11/4/2012	Υ	Υ	Υ	Υ		Υ	Υ	N
once per day, the appearance of closed	11/5/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ	Ν
captions may be noted up	11/6/2012	Y	Y	Y	Y	Y	Y	Y	N
to 24 hours after their	11/7/2012	Υ	Y	Υ	Y	Υ	Υ	Υ	Υ
actual provision by	11/8/2012	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Amazon.	11/9/2012	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	Total Uncaptioned Days	4	0	2	0	0	14	6	15

	Show	Guys with K	(ids				Law and Or	der SVU		
	Season/ Episode	S1E3	SIE4	SIE5	SIE6	Kids STE7	S14E2	S14E3	SVU S14E4	SVU S14E5
	TV Air Date	10/3/2012					10/10/2012	10/17/2012		
Show is not captioned	Observation Date									
	10/8/2012									
Show is captioned	10/9/2012									
Show not on TV, not on	10/10/2012									
Amazon, not observed, or	10/11/2012	N	N				N			
status unknown	10/12/2012	N	N				N			
	10/13/2012	N	N				N			
	10/14/2012	N	N				N			
	10/15/2012	N	N				N			
	10/16/2012	N	N				N			
	10/17/2012	N	N				N			
	10/18/2012	N	N	N			N	N		
	10/19/2012	N	N	N			N	N		
	10/20/2012	N	N	N			N	N		
	10/21/2012	N	N	N			N	N		
	10/22/2012	N	N	N			N	N		
	10/23/2012	N	N	N			N	Υ		
	10/24/2012	Ν	Ν	N			N	Υ		
	10/25/2012	Υ	N	N	N		N	Υ	N	
	10/26/2012	Υ	N	N	N		Υ	Υ	Υ	
	10/27/2012	Y	N	N	N		Υ	Υ	Υ	
	10/28/2012	Y	N	N	N		Υ	Υ	Υ	
	10/29/2012	Y	N	N	N		Υ	Υ	Υ	
	10/30/2012	Y	Υ	N	N		Υ	Υ	Υ	
	10/31/2012	Υ	Υ	N	N		Υ	Υ	Υ	
	11/1/2012	Υ	Υ	N	Υ	N	Υ	Υ	Υ	Υ
	11/2/2012	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
Note: Because we	11/3/2012	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
observed programs only	11/4/2012	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
once per day, the appearance of closed	11/5/2012	Y	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
captions may be noted up	11/6/2012	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
to 24 hours after their	11/7/2012	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
actual provision by	11/8/2012	Y	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
Amazon.	11/9/2012	Y	Y	N	Υ	Υ	Υ	Υ	Υ	Υ
	Total Uncaptioned Days	14	19	23	7	ı	15	5	ı	0

	Show	Nashville					Bones		
	Season/ Episode	SIEI	SIE2	SIE3	SIE4	S1E5	S8E3	S8E4	S8E5
	TV Air Date	10/10/2012	10/17/2012	10/24/2012	10/31/2012	11/7/2012	10/1/2012	10/8/2012	11/5/2012
Show is not captioned	Observation Date								
Show is captioned	10/8/2012						Υ		
	10/9/2012						Υ		
Show not on TV, not on	10/10/2012						Υ		
Amazon, not observed, or	10/11/2012	N					Y		
status unknown	10/12/2012	N					Y		
	10/13/2012	N					Y	Y	
	10/14/2012	N					Y Y	Υ Υ	
	10/15/2012	N						•	
	10/16/2012	N					Y	Y	
	10/17/2012	N					Y	Y	
	10/18/2012	N	N				Y	Y	
	10/19/2012	N	Y				Y	Y	
	10/20/2012	N	Y				Y	Y	
	10/21/2012	N	Y				Υ	Υ	
	10/22/2012	N	Y				Υ	Υ	
	10/23/2012	Y	Υ				Υ	Υ	
	10/24/2012	Υ	Y				Υ	Y	
	10/25/2012	Υ	Y	N			Υ	Y	
	10/26/2012	Y	Y	Υ			Υ	Y	
	10/27/2012	Y	Y	Υ			Υ	Υ	
	10/28/2012	Υ	Y	Υ			Υ	Υ	
	10/29/2012	Υ	Y	Υ			Υ	Υ	
	10/30/2012	Υ	Υ	Υ			Υ	Υ	
	10/31/2012	Υ	Y	Υ			Υ	Υ	
	11/1/2012	Υ	Υ	Υ	N		Υ	Υ	
NI - B	11/2/2012	Υ	Y	Υ	N		Υ	Υ	
Note: Because we	11/3/2012	Υ	Υ	Υ	Ν		Υ	Υ	
observed programs only once per day, the	11/4/2012	Υ	Υ	Υ	Ν		Υ	Υ	
appearance of closed	11/5/2012	Υ	Υ	Υ	N		Υ	Υ	
captions may be noted up	11/6/2012	Υ	Y	Y	N		Υ	Υ	N
to 24 hours after their	11/7/2012	Υ	Y	Υ	N		Υ	Υ	N
actual provision by	11/8/2012	Υ	Y	Υ	N	Υ	Υ	Υ	Ν
Amazon.	11/9/2012	Υ	Υ	Υ	N	Υ	Υ	Υ	N
	Total Uncaptioned Days	12	I	ı	9	0	0	0	4

	Show	Hoarders					American C	hopper				
	Season/ Episode	S6E3	S6E4	S6E5	S6E6	S6E7	S4E5	S4E6	S4E7	S4E8	S4E9	S4E10
	TV Air Date		10/8/2012	10/15/2012	10/22/2012	10/29/2012	10/1/2012	10/8/2012	10/15/2012	10/22/2012	10/29/2012	11/5/2012
Show is not captioned	Observation Date											
Show is captioned	10/8/2012											
	10/9/2012											
Show not on TV, not on	10/10/2012											
Amazon, not observed, or	10/11/2012											
status unknown	10/12/2012											
	10/13/2012	N	N				Y	N				
	10/14/2012	N	N				Y	N				
	10/15/2012	N	N				Y	N				
	10/16/2012	N	N	· · · · · · · · · · · · · · · · · · ·			•	Y				
	10/17/2012	N	N	N			Υ	Υ	Y			
	10/18/2012	N	N	N			Υ	Υ	Y			
	10/19/2012	N	N	N			Υ	Υ	Y			
	10/20/2012	N	N	N			Υ	Y	Υ			
	10/21/2012	N	N	N			Υ	Y	Υ			
	10/22/2012	N	N	N			Υ	Υ	Υ			
	10/23/2012	N	N	N	N		Υ	Υ	Υ			
	10/24/2012	Υ	N	N	N		Υ	Υ	Υ			
	10/25/2012	Υ	N	N	Υ		Υ	Υ	Υ			
	10/26/2012	Υ	Υ	Υ	Υ		Υ	Υ	Υ			
	10/27/2012	Υ	Υ	Υ	Υ		Υ	Υ	Υ			
	10/28/2012	Υ	Υ	Υ	Υ		Υ	Υ	Υ			
	10/29/2012	Υ	Υ	Υ	Υ		Υ	Υ	Υ			
	10/30/2012	Y	Υ	Υ	Y	Y	Υ	Υ	Y			
	10/31/2012	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ	Y		
	11/1/2012	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	11/2/2012	Ý	Ý	Ý	Ý	Ý	Ϋ́	Ý	Ý	Ϋ́	N	
Note: Because we	11/3/2012	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	N	
observed programs only	11/4/2012	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	N	
once per day, the	11/5/2012	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Y	
appearance of closed	11/6/2012	Y	Ý	Ý	Y	Y	Ý	Ÿ	Y	Ϋ́	Ϋ́	
captions may be noted up to 24 hours after their	11/7/2012	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Y
actual provision by	11/8/2012	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ý	Ϋ́	Ϋ́
Amazon.	11/9/2012	Ý	Ý	Ý	Ý	Ý	Ÿ	Ý	Ý	Ÿ	Ϋ́	Ý
/ WHILE OH.	Total Uncaptioned Days	11	13	9	2	0	0	3	0	0	3	0

	Show	Revolution					Alphas					
	Season/ Episode	S1E3	SIE4	SIE5	SIE6	SIE7	S2E10	S2E11	S2E12	S2E13		
	TV Air Date	10/1/2012	10/8/2012	10/15/2012	10/29/2012	11/5/2012	10/1/2012	10/8/2012	10/15/2012	10/22/201		
Show is not captioned	Observation Date				ĺ	ĺ		ĺ				
Charrie	10/8/2012											
Show is captioned	10/9/2012											
Show not on TV, not on	10/10/2012											
Amazon, not observed, or	10/11/2012											
status unknown	10/12/2012											
	10/13/2012	Y	Y				N	N				
	10/14/2012	Y	Y				N	N				
	10/15/2012	Y	Y				N	N				
	10/16/2012	Y					N	N				
	10/17/2012	Y	Y	Y			N	N	N			
	10/18/2012	Y	Y	Y			N	N	N			
	10/19/2012	Y	Y	Y			N	N	N			
	10/20/2012	Y	Y	Y			N	N	N			
	10/21/2012	Y	Y	Y			N	N	N			
	10/22/2012	Y	Y	Y			N	N	N			
	10/23/2012	Y	Y	Y			N	N	N			
	10/24/2012	Y	Υ	Υ			N	N	N	N		
	10/25/2012	Y	Υ	Y			N	N	N	N		
	10/26/2012	Y	Y	Y			N	N	N	N		
	10/27/2012	Y	Y	Y			N	N	N	N		
	10/28/2012	Y	Y	Y			N	N	N	N		
	10/29/2012	Y	Y	Y			N	N	N	N		
	10/30/2012	Y	Υ	Υ	Υ		N	N	N	N		
	10/31/2012	Υ	Y	Υ	Υ		N	N	N	N		
	11/1/2012	Υ	Y	Υ	Υ		N	N	N	N		
Note: Because we	11/2/2012	Υ	Y	Υ	Υ		N	N	N	N		
observed programs only	11/3/2012	Υ	Υ	Υ	Υ		N	N	N	Ν		
once per day, the	11/4/2012	Υ	Υ	Υ	Υ		N	N	N	N		
appearance of closed captions may be noted up	11/5/2012	Υ	Υ	Υ	Υ		N	N	N	N		
	11/6/2012	Y	Y	Y	Y		N	N	N	Ν		
to 24 hours after their	11/7/2012	Y	Y	Y	Y	Υ	N	Υ	N	Υ		
actual provision by	11/8/2012	Y	Y	Y	Y	Υ	N	Υ	N	Υ		
Amazon.	11/9/2012	Y	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ		
	Total Uncaptioned Days	0	0	0	0	0	28	25	23	14		

	Show	Breaking A	mish			Grey's Anatomy					
	Season/ Episode	SIE5	SIE6	SIE8	SIE9	S9E2	S9E3	S9E4	S9E5		
	TV Air Date	10/7/2012	10/14/2012	10/28/2012	11/4/2012	10/4/2012	10/18/2012	10/25/2012	11/8/201		
Show is not captioned	Observation Date										
Show is captioned	10/8/2012										
	10/9/2012										
Show not on TV, not on	10/10/2012										
Amazon, not observed, or status unknown	10/11/2012 10/12/2012										
status unknown	10/12/2012	N							 		
	10/13/2012	N N							 		
	10/15/2012	N							 		
	10/16/2012	Y									
	10/17/2012	Ý	Υ								
	10/18/2012	Ý	Ý								
	10/19/2012	Y	Y			Y	N				
	10/20/2012	Y	Ý			Ý	Y				
	10/21/2012	Y	Y			Υ	Y				
	10/22/2012	Y	Y			Υ	Y				
	10/23/2012	Y	Υ			Υ	Υ				
	10/24/2012	Υ	Υ			Υ	Υ				
	10/25/2012	Y	Υ			Υ	Υ				
	10/26/2012	Υ	Υ			Υ	Υ	N			
	10/27/2012	Υ	Υ			Υ	Υ	Υ			
	10/28/2012	Υ	Υ			Υ	Υ	Υ			
	10/29/2012	Υ	Υ			Υ	Υ	Υ			
	10/30/2012	Y	Υ			Υ	Υ	Υ			
	10/31/2012	Υ	Υ			Υ	Υ	Υ			
	11/1/2012	Y	Υ	N		Υ	Υ	Υ			
	11/2/2012	Y	Υ	N		Υ	Υ	Υ			
Note: Because we observed programs only	11/3/2012	Y	Υ	N		Υ	Υ	Υ			
once per day, the	11/4/2012	Υ	Υ	N		Υ	Υ	Υ			
appearance of closed	11/5/2012	Υ	Υ	Υ	N	Υ	Υ	Υ			
captions may be noted up	11/6/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ			
to 24 hours after their	11/7/2012	Y	Υ	Υ	Υ	Υ	Υ	Υ			
actual provision by	11/8/2012	Υ	Υ	Υ	Υ	Υ	Υ	Υ			
Amazon.	11/9/2012	Y	Y	Y	Y	Y	Y	Υ	Υ		
	Total Uncaptioned Days	3	0	4	ı	0	ı	ı	0		

	Show	Grimm					Arrow					
	Season/ Episode	S2E6	S2E7	S2E8	S2E9	S2E10	SIEI	SIE2	S1E3	SIE4	S1E5	
	TV Air Date		10/12/2012	10/19/2012	10/26/2012	11/2/2012	10/10/2012	10/17/2012	10/24/2012	10/31/2012	11/7/201	
Show is not captioned	Observation Date											
Show is captioned	10/8/2012											
·	10/9/2012											
Show not on TV, not on	10/10/2012											
Amazon, not observed, or	10/11/2012											
status unknown	10/12/2012											
	10/13/2012											
	10/14/2012											
	10/15/2012											
	10/16/2012											
	10/17/2012											
	10/18/2012											
	10/19/2012											
	10/20/2012	N	Y	N								
	10/21/2012	N	Υ	N								
	10/22/2012	N	Y	N								
	10/23/2012	N	Y	N								
	10/24/2012	N	Y	Y								
	10/25/2012	Y	Υ	Y			Y	Y	N			
	10/26/2012	Y	Y	Y			Y	Y	N			
	10/27/2012	Υ	Y	Y	N		Y	Υ	N			
	10/28/2012	Υ	Υ	Υ	N		Y	Y	N			
	10/29/2012	Υ	Υ	Υ	N		Y	Y	N			
	10/30/2012	Υ	Υ	Υ	Ν		Y	Υ	Υ			
	10/31/2012	Υ	Υ	Υ	Ν		Υ	Υ	Υ			
	11/1/2012	Υ	Υ	Y	Υ		Υ	Υ	Υ	N		
NI - D	11/2/2012	Υ	Υ	Y	Υ		Υ	Υ	Υ	N		
Note: Because we	11/3/2012	Υ	Υ	Υ	Y	N	Y	Y	Υ	N		
observed programs only once per day, the	11/4/2012	Υ	Υ	Y	Y	N	Y	Y	Υ	N		
once per day, the appearance of closed captions may be noted up to 24 hours after their actual provision by	11/5/2012	Υ	Υ	Υ	Y	Ν	Y	Y	Υ	Υ		
	11/6/2012	Y	Y	Υ	Y	Ν	Y	Y	Υ	Υ		
	11/7/2012	Y	Y	Y	Y	Y	Y	Y	Υ	Υ		
	11/8/2012	Y	Y	Y	Υ	Υ	Y	Υ	Υ	Υ	Y	
Amazon.	11/9/2012	Y	Y	Y	Y	Y	Y	Y	Υ	Y	Y	
	Total Uncaptioned Days	5	0	4	5	4	0	0	5	4	0	

Appendix C—Syfy

Show	Internet VPD	Date	Time	Network	TV Air Date	Device	os	Browser	Native App/Version	Captions Work?	Control over font?	Persistent captions?	Prominent CC controls?
Haven S3E4	SyFy	10/13/2012	15:35:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	No		СПРОГОТІОТ	
naven ooz i	57.7	10/15/2012	15.55.00	37.7	10/12/2012	i lacebook / til	CO / CLOII	Cironic	rreb player	110			Same as volume
Haven S3E4	Hulu	10/13/2012	15:35:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	control
Haven S3E3	SyFy	10/13/2012	15:40:00	SyFy	10/5/2012	MacBook Air	OS X Lion	Chrome	Web Player	No			
									,				Same as volume
Haven S3E3	Hulu	10/13/2012	15:40:00	SyFy	10/5/2012	MacBook Air	OS X Lion	Chrome	Web Player	Yes	Yes	Yes	control
Haven S3E4	Google	10/13/2012	15:45:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	WebPlayer	No			
													Same as volume
Haven S3E4	Google	10/15/2012	21:45:00	SyFy	10/12/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	control
													Same as volume
Alphas S2E12	Google	10/17/2012	23:30:00	SyFy	10/15/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Yes	control
							OS X Snow						
Alphas S2E10	SyFy	11/2/2012	11:30:00	SyFy	10/1/2012	iMac	Leopard	Chrome	Web player	No			
						o			Native video	.,		v	
Alphas S2E12	Google	11/2/2012	14:00:00	SyFy	10/15/2012	Galaxy Tab	Android 2.2		player	Yes	Yes	Yes	
Al-b COELL	C F	11/8/2012	12.25.00	C E	10/0/2012	iMac	OS X Snow	Ch	\A/- b - l	NI-			
Alphas S2E11 Warehouse 13	SyFy	11/8/2012	12:35:00	SyFy	10/8/2012	IIMac	Leopard	Chrome	Web player	No			
S4E10	SyFy	12/3/2012	11:05:00	SyFy	10/1/2012	MacBook Pro	OS X Leopard	Eirofox	Web Player	No			
Warehouse 13	Зугу	12/3/2012	11.05.00	Syl y	10/1/2012	Tiacbook 110	O3 X Leopard	THEIOX	vveb i layer	140			Same as volume
S4E10	Hulu	12/3/12	11:30:00	SyFy	10/1/12	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	Yes	control
01210	Tiulu	12/3/12	11.50.00	37.7	10/1/12	T IMEDOOK T TO	CO / Leopard	THEIOX	rreb player	103	103	103	Concroi
Alphas S2E13	SyFy	12/14/12	11:00:00	SyFy	10/22/12	MacBook Pro	OS X Leopard	Firefox	Web player	No			
F V==	-, ,			- / /					F -7				Same as volume
Alphas S2E13	Hulu	12/14/12	11:40:00	SyFy	10/22/12	MacBook Pro	OS X Leopard	Firefox	Web player	Yes	Yes	Yes	control

Appendix D—Quality Issues

	Internet				TV Air				Native	СС	СС		Control over	СС	Prominent CC
Show	VPD	Date	Time	Network	Date	Device	os	Browser	App/Version	Work?	Usable?	Quality Issues?	Font?	Persists?	controls?
												Captions are roll-up rather			
												than pop-on and are			
Grey's Anatomy												unavailable in full-screen	Control over		Same as volume
S9E3	ABC	10/19/2012	23:52:00	ABC	10/18/2012	MacBook Air		Chrome	Web player	Yes	No	mode.	size colors	No	control
							OS X Mountain					Captions on a different screen			
Modern Family S4E3	ARC	10/10/2012	9.00.00	ABC	10/10/2012	MacBook Pro		Chrome	Web player	Yes	No	under video screen, making it difficult to read	Yes	No	Yes
1 lodern ranning 5 125	ABC	10/10/2012	7.00.00	ADC	10/10/2012	T Iacbook 110	LIOII	Cilionie	veo piayei	163	140	Captions disappear once in full		140	163
												screen mode; Good			
							OS X					descriptive captions of non-	Control over		Much smaller than
Modern Family S4E5	ABC	10/25/2012	11:50:00	ABC	10/24/2012	Macbook Pro	Leopard	Firefox	Web player	Yes	No	dialogue	size colors		volume
							OS X Snow					Captions are roll-up rather	Control over		Same as volume
Revenge S2E2	ABC	10/9/2012	12:02:00	ABC	10/7/2012	iMac	Leopard	Chrome	Web player	Yes	No	than pop-on	size colors	No	control
												Out of synch with audio;			
6.5	400	10/7/2012	10.22.00	400	10/5/2012	·D. 4	.00		4BCBI 224			Dropped words; Skipped			0 / "
Suburgatory S1E2	ABC	10/7/2012	10:33:00	ABC	10/5/2012	iPhone 4	iO\$ 5.1.1 O\$ X		ABC Player 2.0.4	Yes	Yes	words Captions on a different screen	No	Yes	On/off
							Mountain					under video screen, making it			
The Neighbors S1E2	ABC	10/10/2012	9.00.00	ABC	10/3/2012	MacBook Pro		Chrome	Web player	Yes	No	difficult to read	Yes	No	Yes
The regilbors of E2	7.50	10/10/2012	7.00.00	, LDC	10/3/2012	T INCEDOOR T TO	Lion	Cili Oilic	rreb player	103	140	difficult to read	103	110	163
							os x					Captions stopped working			
Shipping Wars S2E14	AETV	10/3/2012	11:50:00	A&E	10/2/2012	MacBook Pro	Leopard	Firefox	Web player	Yes	Yes	when end credits began rolling	No		
															Icon is a speech
Animal Odd							OS X								balloon rather
Couples Vol. 2	Apple	11/15/2012	14:35:00	PBS	11/7/2012	MacBook Pro	Leopard	Firefox	iTunes 10.6.3	Yes	No	Out of sync with audio	No	Yes	than "CC"
												C			
												Captions are generated from live captions, which themselves			
C-SPAN video												have lag and content quality	•		
library: Obama							OS X Snow					issues. The font does not scale			Same as volume
victory speech	C-SPAN	11/7/2012	12:56:00	C-SPAN	11/6/2012	iMac	Leopard	Chrome	Web player	Yes	No	properly in full-screen mode.	No	No	control
							·								
												Captions are generated from			
												live captions, which themselves	•		
C-SPAN video							00.77.0					have lag and content quality			
library: Romney	C CDANI	11/7/2012	13:00:00	C CDANI	11/6/2012	iMac	OS X Snow	Chuama	\A/ah =lavan	Vaa	Nia	issues. The font does not scale	Nie	No	Same as volume
concession speech	C-SPAN	11/7/2012	13:00:00	C-SPAN	11/0/2012	ii-iac	Leopard	Chrome	Web player	Yes	No	properly in full-screen mode. No descriptionary captions	INU	INO	control
How I Met Your												during opening sequence, e.g.			Same as volume
Mother S8E3	CBS	10/14/2012	21:35:00	CBS	10/8/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	No	"music playing"	No	Yes	control
The Big Bang Theory	·								, ,			1 7 0			Same as volume
S6E3	CBS	10/14/2012	21:00:00	CBS	10/11/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	Yes	Spelling error; dropped words	No		control
												Font does not scale to size in			Same as volume
Arrow STE3	CW	10/25/2012	8:10:00	CW	10/24/2012	MacBook Air		Chrome	Web player	Yes	Yes	full-screen mode	Yes	Yes	control
5 (0 D) .	ECD) I	10/15/20:3	12.00.00	ECD) I	0/11/2015		OS X	F	NA / 1 1		v	N6 1 1			Same as volume
E:60 - Ray Lewis	ESPN	10/15/2012	12:00:00	ESPN	9/11/2012	MacBook Pro	Leopard	Firefox	Web player	Yes	Yes	Misstated words	No		control

Appendix D—Quality Issues

	Internet				TV Air				Native	сс	СС		Control over		Prominent CC
Show	VPD	Date	Time	Network	Date	Device	os	Browser	App/Version	Work?	Usable?	Quality Issues?	Font?	Persists?	controls?
Bones S8E3	Fox	10/9/2012	23:06:00	Fox	10/1/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	No	Font does not scale to size in full-screen mode; Out of sync with audio	No	Yes	Same as volume control
The Mindy Project STE3	Fox	11/2/2012	13:00:00	FOX	10/9/2012	Dell Laptop	Windows 7	Internet Explorer 9	Web player	Yes	Yes	Font does not scale to size in full-screen mode; Spelling error; Dropped words	No		Options button at top
Law & Order SVU S14E2	Google	10/13/2012	22:00:00	NBC	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	No	Out of synch with audio halfway through	Yes, same as YouTube	Yes	Same as volume control
American Restoration / Prank War S2E32	History Channel	10/14/2012	17:00:00	History Channel	10/10/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	No	Out of synch with audio halfway through; No captions at the end	No	No	Same as volume control
30 Rock:The Beginning of the End	Hulu	10/21/2012	21:50:00	NBC	10/4/2012	Samsung S3 (Verizon)	Android 4.0.4	4	Hulu Plus 2.4.200921	Yes	Yes	Incorrect capitalization	No	Yes	Options button at top
Parking Wars - E86	Microsoft	11/29/2012	11:08:00	A&E	10/6/2012	Xbox360	2.0.16202.0		Xbox Video	Yes	Yes	Thin/outlined font is difficult to read	No	Yes	In transport bar menu next to play, stop, etc.
Law & Order S2E10	Netflix	10/13/2012	17:40:00	NBC	11/26/1991	Kindle Fire	Custom Android 6.3.	I	Netflix App, version 2.0.1	Yes	Yes	Font does not scale with screen size	No	No	Same as volume control
Call the Midwife - Episode 2	PBS	10/11/2012	23:40:00	PBS	10/7/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Font does not scale with screen size	No	No	Same as volume control
Frontline - Dropout Nation	PBS	10/11/2012	23:40:00	PBS	9/25/2012	MacBook Air	O\$ X Lion	Chrome	Web player	Yes	Yes	Font does not scale with screen size	No	No	Same as volume control
Frontline - The Choice 2012	PBS	10/11/2012	23:40:00	PBS	10/10/2012	MacBook Air	OS X Lion	Chrome	Web player	Yes	Yes	Font does not scale with screen size	No	No	Same as volume control
												Captions are rendered on top of video and encoded at the source, rather than in the browser, resulting in compression artifacts of the			Below video and does not stand out from channel
PBS News Hour	PBS	11/6/2012	20:05:00	PBS	11/6/2012	MacBook Air	OS X Lion	Chrome	Web Player	Yes	No	font, making it hard to read	No	No	selection Same as volume
Bling It On S1E3	TLC	10/14/2012	16:35:00	TLC	10/4/2012	Dell Latitude	Windows 7	Chrome	Web player	Yes	No	Dropped words	Yes	No	control
Dallas STE4	TNT	11/8/2012	16:10:00	TNT	10/31/2012	Samsung Galaxy Nexus	s Android 4.1.1	ı	TNT Player	Yes	Yes	Dropped words	No		Same as volume control
Perception S1E6	TNT	11/8/2012	16:15:00	TNT	11/7/2012	Samsung Galaxy Nexus	s Android 4.1.1	ı	TNT Player	Yes	Yes	Dropped words	Yes		Same as volume control
Cuidado con el Angel Episode 10	Univision	11/7/2012	19:25:00	Univision	11/2/2012	iMac	OS X Snow Leopard	Firefox 16.0.2	Web player	Yes	No	Captions are at least three minutes behind the audio and useless for all practical purposes. Font does not scale with full-screen mode.	No	No	Same as volume control